

Main Specifications Related to Version Upgrade for Unit Ver. 1.2

| Item | Unit Ver. 1.2 or later | Pre-Ver. 1.2 |
|--|--|--|
| Number of data link words | Number of send/receive words per Unit Total of Area 1 and Area 2: 20,000 words max. | Number of send/receive words per Unit Total of Area 1 and Area 2: 12,000 words max. |
| | Number of send words per Unit Total of Area 1 and Area 2: 1,000 words max. | |
| Data Link Area allocations | User-set allocations | Areas 1 and 2: CIO Area (including data link words), DM Area, and EM Area |
| | Both Area 1 and Area 2 can be allocated in the same area (provided there is no address duplication). | Both Area 1 and Area 2 cannot be allocated in the same area. |
| | Automatically set equal allocations | Area 1: CIO Area (including data link words), Area 2: DM Area and EM Area |
| Automatically set 1:N allocations | Areas 1 and 2: CIO Area (including data link words), DM Area, and EM Area | |
| Maximum number of Controller Link Units connected to a single CPU Unit | 8 Units max. | 4 Units max. |

CX-Programmer Ver. 5.0 or higher is required to set a data link area with a maximum number of send and receive words of 20,000 words per Controller Unit, or to allocate the same area for Area 1 and Area 2.

The following functions are supported by Pre-Ver. 1.2 Controller Link Units

Use of Repeater Units to allow T-branching of Wired Units, longer cables, system expansion, and Optical links within the network.

T-branching provides more flexibility when wiring for original layout, upgrades, and expansions.

Wired Systems support longer distance wiring.

With 2-Mbps communications, a Wired System supports a total length of 500 m maximum, but the system can be extended to 1.5 km maximum by using 2 Repeater Units.

The maximum number of nodes in a Wired System has been increased to 62 nodes.

When -V1 Controller Link Units/Support Boards are combined with a Repeater Unit, up to 62 nodes can be included in the network.

Improve noise resistance with optical fiber cable.

With two Wire-to-Optical Repeater Units, it is possible to create a link with optical fiber cable only in areas where the noise sources are located.

Data links are easier and more flexible than ever.

Data link tables can be changed during operation.



PCI Boards for Computers
3G8F7-CLK21-EV1 (Wired Unit)
3G8F7-CLK12-EV1 (H-PCF Optical Ring Unit)
3G8F7-CLK52-EV1 (GI Optical Ring Unit)



Wire-to-Wire Unit
CS1W-RPT01



Wire-to-Optical Unit for
H-PCF Cable
CS1W-RPT02



Wire-to-Optical for
GI Cable
CS1W-RPT03

Standard Models

| Unit name | Unit classification | Applicable PLC series | Transmission media | Model number | Remarks |
|-------------------------------|--------------------------|-----------------------|--------------------------------------|-------------------|--|
| Controller Link Unit | CPU Bus Unit | CS Series | Wired Unit | CS1W-CLK21-V1 | Use CX-Programmer Ver. 5.0. Can be combined with earlier versions of Controller Link Units/Support Boards. |
| | | | H-PCF Optical Ring Unit | CS1W-CLK12-V1 | |
| | | | GI Optical Ring Unit | CS1W-CLK52-V1 | |
| Controller Link Support Board | PCI Boards for Computers | — | Wired Unit | 3G8F7-CLK21-(E)V1 | |
| | | | H-PCF Optical Ring Unit | 3G8F7-CLK12-(E)V1 | |
| | | | GI Optical Ring Unit | 3G8F7-CLK52-(E)V1 | |
| Controller Link Repeater Unit | — | Not mounted in a PLC. | Wire-to-Wire Unit | CS1W-RPT01 | The Repeater Unit can be used with a Wired Controller Link Unit (it cannot be used with Optical Units) and can be mounted to a DIN Track or mounted with screws. |
| | | | Wire-to-Optical Unit for H-PCF Cable | CS1W-RPT02 | |
| | | | Wire-to-Optical for GI Cable | CS1W-RPT03 | |

CS1W-CLK12-V1 Controller Link Units with Ver. 1.2 were shipped from August 2004. CS1W-CLK21-V1, CJ1W-CLK21-V1, and CS1W-CLK52-V1 Controller Link Units with Ver. 1.2 were shipped from August 2004.

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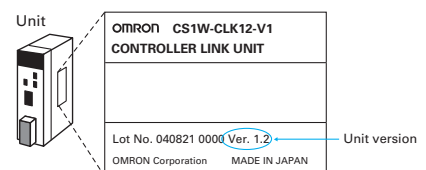
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Unit Versions

A "unit version" has been introduced to manage CS/CJ-series Controller Link Units according to differences in functionality accompanying version upgrades. The unit version code is provided on the nameplate of the CS/CJ-series Controller Link Units for which unit versions are being managed, as shown in the diagram on the right.



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Note: Do not use this document to operate the Unit.

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Note: Specifications subject to change without notice.

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